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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,173	09/12/2003	ASHOT ANDREASYAN	PR 1803.01 US	2172
31883	7590	09/15/2009	EXAMINER	
DVA/PIONEER RESEARCH CENTER USA, INC. 2265 E. 220TH STREET LONG BEACH, CA 90810			TRUVAN, LEYNNA THANH	
			ART UNIT	PAPER NUMBER
			2435	
			MAIL DATE	DELIVERY MODE
			09/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/605,173	ANDREASYAN, ASHOT	
	Examiner	Art Unit	
	Leynna T. Truvan	2435	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 29 June 2009.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 36-62 is/are pending in the application.
 4a) Of the above claim(s) 1-35 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 36-62 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____. | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

1. Claims 36-62 are now pending.

Claims 1-35 are cancelled by applicant.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/29/2009 has been entered.

Response to Arguments

3. Applicant's arguments with respect to claims 36-62 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 36-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moharram, et al. (US 7,290,286) in view of Immonen (US 6,931,528).

As per claim 36:

Moharram discloses the method for generating shared keys comprising:
providing a first certificate from a first peer to a second peer, the first certificate including a plurality of first parameters that comprises a first public key for the first peer;
(col.1, lines 48-51; 1st peer is in form of server B)

generating a second public key by the second peer with at least one parameter of the plurality of first parameters and a first private key of the second peer; **(col.1, lines 54-55 and col.1, line 64-col.2, line 5; 2nd peer is in form of client A)**

providing the generated second public key from the second peer to the first peer;
(col.1, lines 54-55 and col.3, lines 16-25)

generating a first shared secret key for the second peer with the first public key of the first certificate; and **(col.1, lines 57-60 and col.3, lines 23-26)**

generating a second shared secret key for the first peer [*with the second public key from the second peer and a private key of the first peer*]. **(col.1, lines 57-60 and col.3, lines 16-19)**

Immonen discloses each party (i.e. 1st & 2nd peers) independently calculates a shared secret key where client A (2nd peer) obtains server B's public key (of 1st certificate) to calculate a (1st) shared secret key (col.1, lines 57-60 and col.3, lines 23-26). Immonen also calculates the same process for the (2nd) shared secret key for server B (1st peer) so that each party can verify its peer's identity. Thus, Immonen

includes a 1st shared secret key for the 2nd peer and a 2nd shared secret key for the 1st peer. However, Immonen does not include the 2nd shared secret key is generated with the 2nd public key from the 2nd peer and a private key of the 1st peer.

To simplify terminology from one art to another that corresponds to the claimed invention, is referred in the rejection as follows:

First peer (1st peer) = Server B (Immonen) = Consumer/owner (Moharram)

Second peer (2nd peer) = Client A (Immonen) = Peer (Moharram)

Moharram discloses the consumer (1st peer) obtains a digital certificate that contains the consumer's public key that is sent to peer (2nd peer) and computes a shared secret key (col.9, lines 30-33). Moharram discloses computing the shared secret key from peer's public key and owner private key where owner is referring to the consumer (1st peer) (col.9, lines 36-45). Therefore, it would have been obvious for a person of ordinary skills in the art at the time of the invention to modify Immonen to teach generating a 2nd shared secret key for the 1st peer with the 2nd public key from the 2nd peer and a private key of the 1st peer because this shows that the claimed 1st and 2nd shared secret key are two separate different shared secret keys that are not generated the same as one another and verifies the parties' identities which certifies the key is his/her own (Moharram-col.9, lines 6-35).

As per claim 37: See Immonen on col.1, lines 47-67 and col.3, lines 23-45;
discussing the method of claim 36 and further comprising providing a second certificate from the second peer to the first peer, the second certificate comprising a plurality of second parameters.

As per claim 38: See Moharram on col.9, lines 27-50; discussing the method of claim 37 wherein generating the second shared secret key for the first peer with the second public key from the second peer and a private key of the first peer further comprises generating the second shared secret key for the first peer with the second public key from the second peer, the private key of the first peer and at least one of the plurality of second parameters.

As per claim 39: See Immonen on col.1, lines 47-67 and col.3, lines 23-26 and Moharram on col.9, lines 27-50; discussing the method of claim 36 wherein the first public key of the first certificate is received from a third party certificate authority.

As per claim 40: See Immonen on col.1, lines 47-67 and col.3, lines 23-26; discussing the method of claim 36 wherein generating a first shared secret key for the second peer with the first public key of the first certificate is carried out independently of any public key generated by the first peer and the second peer.

As per claim 41: See Immonen on col.3, lines 1-5 and Moharram on col.9, lines 27-50; discussing the method of claim 36 wherein the plurality of first parameters of the first certificate comprises at least one prime number and at least one generator in addition to the first public key of the first certificate.

As per claim 42: See Immonen on col.4, lines 1-5; discussing the method of claim 37 wherein the plurality of second parameters of the second certificate comprises at least one prime number, at least one generator and a public key of the second certificate that is received from a third party certificate authority.

As per claim 43: **See Immonen on col.3, lines 23-26 and Moharram on col., lines;** discussing the method of claim 42 and wherein the generating a second shared secret key for the first peer with the second public key from the second peer and a private key of the first peer is carried out without employing either the first public key of the first certificate or the public key of the second certificate.

As per claim 44: **See Immonen on col.4, lines 1-5;** discussing the method of claim 37 wherein both the first certificate including the plurality of first parameters and the second certificate including the plurality of second parameters are generated independently of the first peer and the second peer.

As per claim 45: **See Immonen on col.3, lines 44-45;** discussing the method of claim 37 wherein both the first certificate and the second certificate comprise Digital Signature Algorithm (DSA) type certificates.

As per claim 46: **See Immonen on col.3, lines 43-45;** discussing the method of claim 37 wherein the plurality of first parameters and the plurality of second parameters comprise digital signature standard parameters.

As per claim 47: **See Immonen on col.4, lines 44-52;** discussing the method of claim 37 wherein the first and second certificates are sent to the second and first peers, respectively, over a wireless network.

As per claim 48: **See Immonen on col.4, lines 41-50;** discussing the method of claim 36 wherein the first peer and the second peer communicate over a network.

As per claim 49: See Immonen on col.4, lines 44-52; discussing the method of claim 48 wherein the network comprises at least one of a wireless network or a Bluetooth network.

As per claim 50: See Immonen on col.1, lines 47-67 and col.3, lines 23-26; discussing the method of claim 36 wherein the first public key of the first certificate is a variable used in the step of generating the first shared key.

As per claim 51:

Moharram discloses the system comprising:
a processor; and a memory coupled to the processor,
the memory containing program code that, when executed by the processor,
causes the processor to:
provide a first certificate from a first peer to a second peer, the first certificate including a plurality of first parameters that comprises a first public key for the first peer;
(col.1, lines 48-51; 1st peer is in form of server B)
generate a second public key by the second peer with at least one parameter of the plurality of first parameters and a first private key of the second peer; **(col.1, lines 54-55 and col.1, line 64-col.2, line 5; 2nd peer is in form of client A)**
provide a second certificate and the second public key from the second peer to the first peer, the second certificate comprising a plurality of second parameters; **(col.1, lines 54-55 and col.3, lines 16-25)**
generate a first shared secret key for the second peer with the first public key of the first certificate; and **(col.1, lines 57-60 and col.3, lines 23-26)**

generate a second shared secret key for the first peer [*with the second public key from the second peer, a private key from of first peer and at least one of the plurality of second parameters*]. (**col.1, lines 57-60 and col.3, lines 16-19**)

Immonen discloses each party (i.e. 1st & 2nd peers) independently calculates a shared secret key where client A (2nd peer) obtains server B's public key (of 1st certificate) to calculate a (1st) shared secret key (col.1, lines 57-60 and col.3, lines 23-26). Immonen also calculates the same process for the (2nd) shared secret key for server B (1st peer) so that each party can verify its peer's identity. Thus, Immonen includes a 1st shared secret key for the 2nd peer and a 2nd shared secret key for the 1st peer. However, Immonen does not include the 2nd shared secret key is generated with the 2nd public key from the 2nd peer and a private key of the 1st peer.

To simplify terminology from one art to another that corresponds to the claimed invention, is referred in the rejection as follows:

First peer (1st peer) = Server B (Immonen) = Consumer/owner (Moharram)

Second peer (2nd peer) = Client A (Immonen) = Peer (Moharram)

Moharram discloses the consumer (1st peer) obtains a digital certificate that contains the consumer's public key that is sent to peer (2nd peer) and computes a shared secret key (col.9, lines 30-33). Moharram discloses computing the shared secret key from peer's public key and owner private key where owner is referring to the consumer (1st peer) (col.9, lines 36-45). Therefore, it would have been obvious for a person of ordinary skills in the art at the time of the invention to modify Immonen to teach generating a 2nd shared secret key for the 1st peer with the 2nd public key from

the 2nd peer and a private key of the 1st peer because this shows that the claimed 1st and 2nd shared secret key are two separate different shared secret keys that are not generated the same as one another and verifies the parties' identities which certifies the key is his/her own (Moharram-col.9, lines 6-35).

As per claim 52: **See Immonen on col.1, lines 47-67 and col.4, lines 1-5;** discussing the system of claim 51 wherein both the first certificate including the plurality of first parameters and the second certificate including the plurality of second parameters are generated independently of the first peer and the second peer.

As per claim 53: **See Immonen on col.3, lines 44-45;** discussing the system of claim 51 wherein both the first certificate and the second certificate comprise Digital Signature Algorithm (DSA) type certificates.

As per claim 54: **See Immonen on col.3, lines 43-45;** discussing the system of claim 51 wherein the plurality of first parameters and the plurality of second parameters comprise digital signature standard parameters.

As per claim 55: **See Immonen on col.4, lines 44-52;** discussing the system of claim 51 wherein the first and second certificates are sent to the second and first peers, respectively, over a wireless network.

As per claim 56: **See Immonen on col.4, lines 44-52;** discussing the system of claim 51 wherein the first peer and the second peer communicate over a network that comprises at least one of a wireless network or a Bluetooth network.

As per claim 57:

Moharram discloses a computer storage medium including data that, when accessed by a computer, causes the computer to perform operations comprising:

providing a first certificate from a first peer to a second peer, the first certificate including a plurality of first parameters that comprises a first public key for the first peer;

(col.1, lines 48-51; 1st peer is in form of server B)

generating a second public key by the second peer with at least one parameter of the plurality of first parameters and a first private key of the second peer; **(col.1, lines 54-55 and col.1, line 64-col.2, line 5; 2nd peer is in form of client A)**

providing a second certificate and the second public key from the second peer to the first peer, the second certificate comprising a plurality of second parameters; **(col.1, lines 54-55 and col.3, lines 16-25)**

generating a first shared secret key for the second peer with the first public key of the first certificate; and**(col.1, lines 57-60 and col.3, lines 23-25)**

generating a second shared secret key for the first peer [*with the second public key from the second peer, a private key from of first peer and at least one of the plurality of second parameters*]. **(col.1, lines 57-60 and col.3, lines 16-19)**

Immonen discloses each party (i.e. 1st & 2nd peers) independently calculates a shared secret key where client A (2nd peer) obtains server B's public key (of 1st certificate) to calculate a (1st) shared secret key (col.1, lines 57-60 and col.3, lines 23-26). Immonen also calculates the same process for the (2nd) shared secret key for server B (1st peer) so that each party can verify its peer's identity. Thus, Immonen includes a 1st shared secret key for the 2nd peer and a 2nd shared secret key for the 1st

peer. However, Immonen does not include the 2nd shared secret key is generated with the 2nd public key from the 2nd peer and a private key of the 1st peer.

To simplify terminology from one art to another that corresponds to the claimed invention, is referred in the rejection as follows:

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Moharram discloses the consumer (1st peer) obtains a digital certificate that contains the consumer's public key that is sent to peer (2nd peer) and computes a shared secret key (col.9, lines 30-33). Moharram discloses computing the shared secret key from peer's public key and owner private key where owner is referring to the consumer (1st peer) (col.9, lines 36-45). Therefore, it would have been obvious for a person of ordinary skills in the art at the time of the invention to modify Immonen to teach generating a 2nd shared secret key for the 1st peer with the 2nd public key from the 2nd peer and a private key of the 1st peer because this shows that the claimed 1st and 2nd shared secret key are two separate different shared secret keys that are not generated the same as one another and verifies the parties' identities which certifies the key is his/her own (Moharram-col.9, lines 6-35).

As per claim 58: See Immonen on col.1, lines 47-67 and col.4, lines 1-5;
discussing the computer storage medium of claim 57 wherein both the first certificate including the plurality of first parameters and the second certificate including the plurality of second parameters are generated independently of the first peer and the second peer.

As per claim 59: See Immonen on col.3, lines 44-45; discussing the computer storage medium of claim 57 wherein both the first certificate and the second certificate comprise Digital Signature Algorithm (DSA) type certificates.

As per claim 60: See Immonen on col.4, lines 1-5; discussing the computer storage medium of claim 57 wherein the plurality of first parameters and the plurality of second parameters comprise digital signature standard parameters.

As per claim 61: See Immonen on col.4, lines 44-52; discussing the computer storage medium of claim 57 wherein the first and second certificates are sent to the second and first peers, respectively, over a wireless network.

As per claim 62: See Immonen on col.4, lines 44-52; discussing the computer storage medium of claim 57 wherein the first peer and the second peer communicate over a network that comprises at least one of a wireless network or a Bluetooth network.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leynna T. Truvan whose telephone number is (571) 272-3851. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. T. T./
Examiner, Art Unit 2435
/Kimyen Vu/
Supervisory Patent Examiner, Art Unit 2435